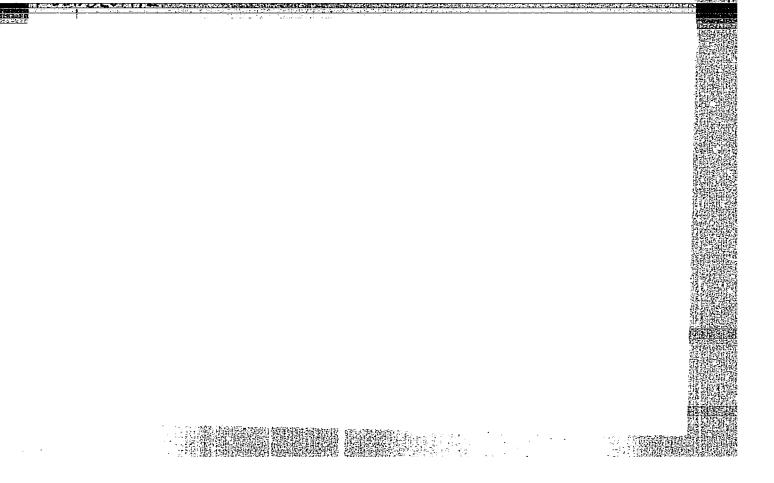
Lowering the cost of the procurement system. Miss.ind.SSSR 30 no.2:22 '59. (MIRA 13:4)

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"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412820

The Study on Cathodic Protection Against Corrosion with Stray Currents, Part III by S. MINC and Z. FELDBLUM, Page 440, Przemysl Chemiczny, No. 8, 1957.

L'ELLIDLY VIVI

POLAND / Chemical Technology. Corrosion & Its Prevention.

H

Abs Jour: Ref Zhur-Khimiya, No 12, 1958, 40006.

Author : Mints, Feldblyum. Z

Inst : Not given.

Title : Investigation of the Cathode Protection from the Action of Wandering Currents. I. The Cathode Pro-

tection from Harmful Action of Wandering and

Protecting Currents.

Orig Pub: Przem. Chem., 1957, 13, No 6, 330-332.

Abstract: According to the method suggested by the authors, the identity of the interaction between a protect-

ing current of a cathode protection and a wandering current on a pipe system was established (in the case of the same direction of flow, as well as

in the case of their reverse direction). An

Card 1/2

8

POLAND / Chemical Technology. Corrosion & Its Prevention.

Η

Abs Jour: Ref Zhur-Khimiya, No 12, 1958, 40006.

Abstract: equation is given which determines the magnitude of the protection current of a cathode protection, depending on the magnitude of a wandering current and the distance from the initial point on the pipe system. The obtained results verify those previously established by the authors, i.e., the common nature of the relation between a minimum current strength of a cathode protection from corrosion caused by wandering currents, and their magnitude, The latter is measured at any point on the pipe system, whenever the source of the wandering current has a final load.

Card 2/2

POLAND / Chemical Technology. Chemical Products and H-4 Their Application. Corrosion. Corrosion Control.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1663.

Author : Minc, S., Feldblum, Z.

Inst : Not given.

: An Investigation on the Protection of a Cathode Title from Wandering Currents. II. The Voltage Drop in a Wandering Current at a Non-Concentrated Cur-

rent Load.

Orig Pub: Przem. chem., 1957, 13, No 7, 382-383.

Abstract: A method described for laboratory experiments on

investigating the effectiveness of cathode protection in underground pipe lines. It is pointed out that the tests were conducted at the current intensity of 50-100 milliamperes, resistance of

Card 1/3

POLAND / Chemical Technology. Chemical Products and H-4 Their Application. Corrosion. Corrosion Control.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1663.

Abstract: 1/7 x 10⁵ - 3 x 10⁶ cohm. centimeter and soil moisture of 3-6%. On the basis of the voltage decomposition measured on a bar, of wandering current in a pipe and of the current flowing through a bar, six diagrams are submitted for calculating and determining the nature of cathode protection in the case of a non-concentrated current load.

III. The investigations of a protective current distribution were conducted on a model representing an underground pipe line at a current density of 4-20 milliamperes, specific soil resistance of 1.2 x 10⁵ ohm. centimeter and 4-6% moisture. The

Card 1/2

11

FELD BLYAM, BORIS, BORISOVICH

PHASE I BOOK EXPLOITATION

341

Yefimov, Aleksey Nikolayevich, Parkhuta, Andrey Nikitovich, Tilevich, Izrail' Aleksandrovich, Tuler, Lazar' Srulevich, Fel'dblyum, Boris Borisovich, and Shaposhnikov, Kas'yan Grigor'yevich

Osnovy teorii poleta samoleta (Principles of the Theory of Aircraft Flight)
Moscow, Voyen. izd-vo Min-va obor. SSSR, 1957. 443 p. No. of copies
printed not given.

Ed.: Zakharov, D. M., Engineer-Col.; Tech. Ed.: Myasnikova, T. F.

PURPOSE:

This book is intended as an aviation and technical text book on the secondary school level. It may also be used as a textbook in the study of the fundamentals of aircraft flight theory for the flying and technical personnel of the Air Forces and of the All-Union Voluntary Society for the Promotion of the Army, Aviation and Navy. The introduction is intended for readers who embark for the first time upon the study of the fundamentals of aviation. The text is approved as a textbook for military aviation and technical schools by the Chief of the Vuz Administration of the Military Air Force.

Card 1/17

	of the Theory	(Cont.)		•	341	
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Initial	Information on	Flying Machin	les			3
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FRL'DBLYUM, B.I., inshener; SHAROMOV, M.S., inshener.

Safety measures in operating traveling jib cranes.

y prom. 1 no.5:21-22 '57.
(Cranes, derricks, etc.)

(MIRA 10:7)

KONDRAT'YEV, N.V., inzh.; FEL'DBLYUM, B.I., inzh.

144400 2022 2

Effective measures for preventing crane accidents. Bezop.truda v prom. 1 no.10:27-28 0 57. (MIRA 10:11)

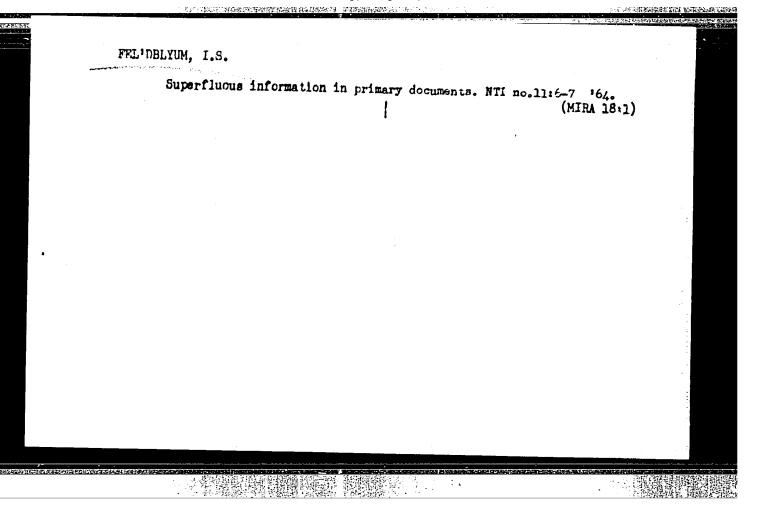
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SMIRHOV, A.I., ingh.; FEL'UBLYUM, B.I., ingh.

Over-all inspection of crane equipment. Besop.trudg v prom. 2
no.10:14-15 0 '58. (MIRA 11:11)

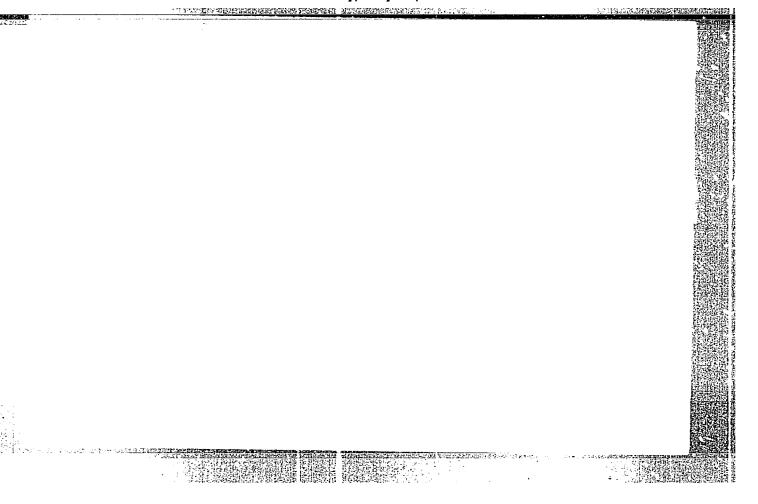
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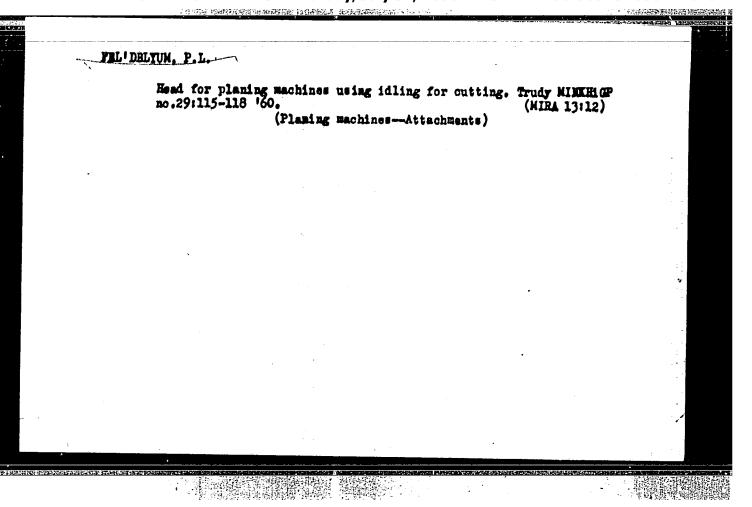
(Granes, derricks, etc.--Safety measures)



MIROSHNICHENKO, F.D.; FEL'DBLYUM, I.S.; PROKOPCHENKO, Ye.A.

Improving transformer steel properties. Stal' 25 no.5:458 My '6".
(MIRA 13:6)





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5/204/63/003/001/003/013 E075/E436

AUTHORS:

Fel'dblyum, V.Sh., Komissarova, G.P., Myasnikova, L.D

Kryukov, S.I., Farberov, M.I.

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TITLE:

The synthesis of isoprene from propylene. 1. Analysis of aluminium alkyls in the process of dimerization of

propylene

PERIODICAL: Neftekhimiya, v.3, no.1, 1963, 13-19

The aim of the work was to investigate the methods for the analysis of activity and composition of aluminium alkyls. analysis consists of determining the ratio of the "active" aluminum in AlR3, where R - an organic radical, to total Al. The methods used to determine the "active" Al were: 1) the indicator method of Razuvayev and Grayevskiy, 2) the Ziegler ammoniacal method, 3) the Tepenitsyna-Farberova oxidation-reduction method, 4) decomposition of AlR3 with H20 with the subsequent measurement of the evolved gas volume. The first two methods gave correct values of the activity but are tedious in operation. The authorise improved the Ziegler method by using di- or trimethylamine in place of NH3, which greatly decreased the analysis time. Examination of Card 1/2

HANDER TO SEE THE PROPERTY OF THE PROPERTY OF

The synthesis of isoprene

S/204/63/003/001/003/013 E075/E436

AlR3 used several times for the catalysis of the dimerization of propylene showed that the first portion of the higher hydrocarbons (byproducts) forming during the reaction attach themselves to Al, or displace a part of the lower elkyl groups in AlR3. used several times as catalyst is a complex mixture of aluminium alkyls, the molecules of which contain propyl and isobutyl groups and at least one C9-C12 group. There are 2 figures and 2 tables.

ASSOCIATION: Nauchno-issledovatel'skiy institut monomerov dlya SK Yaroslavskiy tekhnologicheskiy institut

(Scientific Research Institute of Monomers for Synthetic Rubber, Yaroslav, Technological Institute)

SUBMITTED:

June 9, 1962

Card 2/2

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S/204/63/003/001/004/013 E075/E436

AUTHORS:, Fel'dblyum, V.Sh., Kryukov, S.I., Farberov, M.I.,

Golovko, A.V., Tyuryayev, I.Ya., Pankov, A.G.

TITLE: The synthesis of isoprene from propylene

2. Isomerization of 2-methylpentene-1 in the liquid

phase in the presence of solid acidic catalysts

PERIODICAL: Neftekhimiya, v.3, no.1, 1963, 20-27

TEXT: The object of the work was to isomerize 91.4% wt. pure 2-methylpentene-1 in the liquid phase using silica-alumina, cation exchange resin Ky-1 (KU-1), phosphoric acid-kieselguhr, alumina and silica gel as catalysts. All experiments were carried out at 100 and 150°C and at 75 to 125°C with KU-1 as catalyst. The isomerization is complicated by three secondary reactions, the main of which is the formation of dodecene (dimerization of isohexenes). A small amount of cracking gives amylenes (especially at the higher temperatures). There is also formation of small amounts of various isohexenes. Silica gel and alumina were the least active catalysts. With the remaining more active catalysts the velocity of the main and secondary reactions was much Card 1/3

S/204/63/003/001/004/013 E075/E436

The synthesis of ..

The relative values of K and K₁, K₂, K₃ depend on the proton acidity of the catalysts. Thus their effectiveness may be obtained from all these values. The catalysts were rated in the order of increasing activity:

The effectiveness of acidic sites increases in the order $KU-1 \le H_3PO_4$ - kieselguhr \le silica-alumina. Catalysts KU-1 and silica-alumina give about 80% conversion to 2-methylpentene-2 at 75 and 100°C respectively. There are 2 figures and 4 tables.

Card 2/3

5/204/63/003/001/004/013 E075/E436

The synthesis

ASSOCIATION: Nauchno-issledovatel'skiy institut monomerov dlya sinteticheskogo kauchuka Yaroslavskiy tekhnologicheskiy institut (Scientific Research Institute of Monomers

for Synthetic Rubber, Yaroslav Technological

Institute)

SUBMITTED:

June 9, 1962

Card 3/3

FEL'DBLYUM, V. Sh.; MYASNIKOVA, L.D.; KRYUKOV, S.I.; PARBEROV, M.I.

Synthesis of isoprene from propylene. Neftekhimiia 4 no.2: 257-261 Mr-Ap'64 (MIRA 17:8)

1. Nauchno-issledovatel*skiy institut monomerov dlya sinteticheskogo kauchuka, Yaroslavl* i Yaroslavskiy tekhnologicheskiy institut.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128200

THE SECTION SETS AND SERVICE SETS AND SETS ASSESSED.

FEL DBLYUM, V.Sh.: KRYUKOV, S.I.; FARBEROV, M.I.

Kinetics and the mechanism of acid-induced catelytic conversions of 2-methyl-1-pentene. Kin. i kat. 5 no.3:454-459 My-Je '64.

(MIRA 17:11)

1. Nauchno-issledovatel'skiy institut monomerov dlya sinteticheskogo kauchuka i Yaroslavskiy tekhnologicheskiy institut.

《中国祖子中京都在新教室中的成功的政府和特殊的政治,有人的政府的知识。

SOBOLEV, V.M.; PROKOF'YEV, Ya.N.; FEL'DBLYUM, V.Sh.; ZAKHAROV, B.N. [deceased]; MKHEIDZE, M.A.

Low-temperature viscosimetric tests in the development of the technology for the synthesis of butyl rubber. Kauch. i rez. 23 no.6:1-4 Je *164. (MIRA 17:9)

1. Nauchno-issledovatel skiy institut monomerov dlya cinteticheskogo kauchuka.

Fuel Abst.

Vol. 15 No. 4
Apr. 1934

Apr. 1934

Preparation

Preparation

Apr. 1964

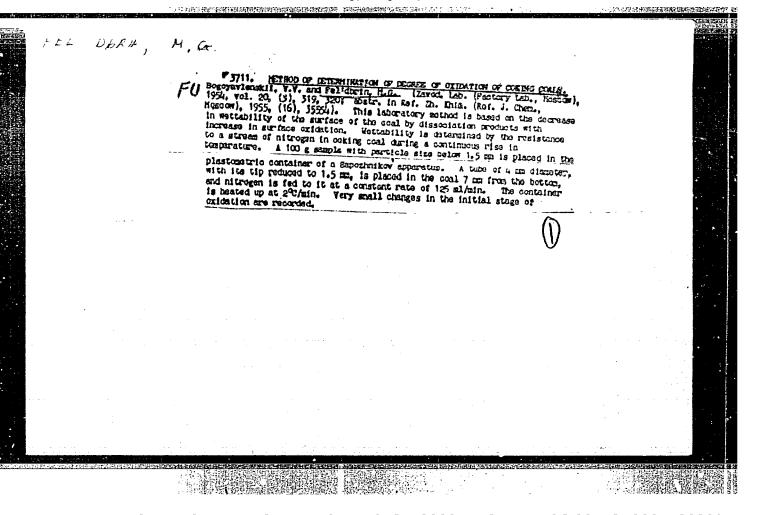
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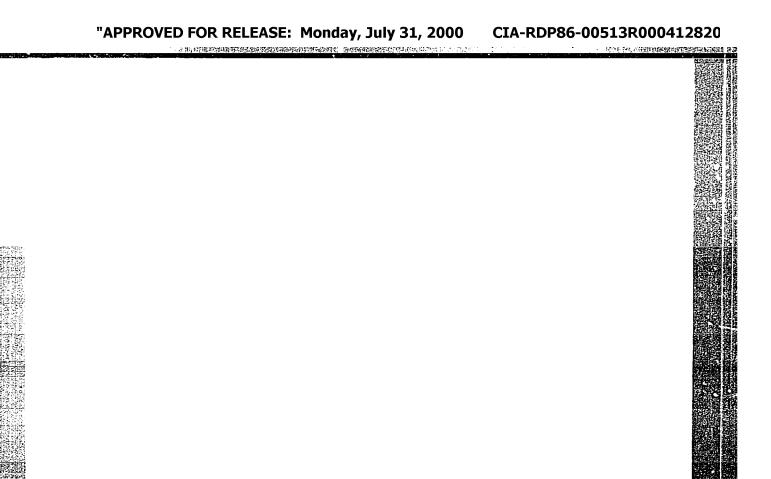
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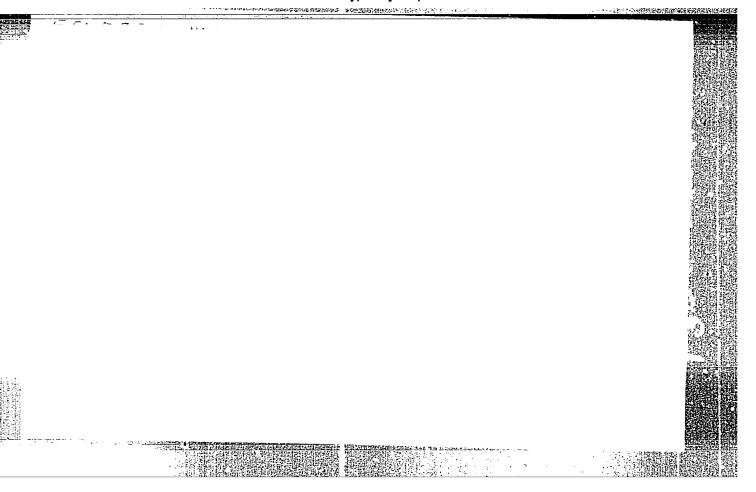
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"APPROVED FOR RELEASE: Monday, July 31, 2000

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AUTHOR:

Lazovskiy, I.M., Fel'dbrin, M.G. and Gryaznov, N.S. (Vukhin).

TITLE:

Coking of blends prepared by differential grinding. (Koksovanie ugol'nykh shikht, podgotovlennykh metodom

izbiratel'nogo drobleniya.)

PERIODICAL: "Koks i Khimiya" (Coke and Chemistry), 1957, No. 4, pp. 8 - 12, (U.S.S.R.)

ABSTRACT:

Seven different schemes of grinding coal for coking were investigated. The first four schemes (Fig. 1) were simple schemes related to normal grinding (93 + 1% of below 3 mm): scheme 1 - standard; 2 consists of separating the size 3 mm; 3 - separation of the size 3 mm and its regrinding and return to the blend; and 4 - separation from coal - 3 mm size and standard grinding of larger sizes and their subsequent remixing. Three remaining schemes (Fig. 2) differ in that intermediate sizes (4-2 mm or 6-3 mm) are separated and then finely ground. Moreover, scheme 7 differed from others in that only diluting coals were differentially ground while the remaining part of the blend is ground in the usual manner. Coking of the experi-mental blends of three different compositions (Table 1) was carried out in a pilot plant (VUKhIN). Results of the coking experiments are given in Table 2. The best results were obtained using 5 and 6 schemes, the strength of the coke increased and the proportion of 80-60 mm size in the metallurgical coke increased by 3-7%. Blends made from petrographically

CIA-RDP86-00513R000412820(APPROVED FOR RELEASE: Monday, July 31, 2000

為其時間

AUTHORS: Fel'dbrin, M.G., Gryaznov, N.S. and Lazovskiy, I.M.

Utilisation of Gas and Weakly-caking Coals in Blends of the Eastern Works (Ispol'zovaniye gazovykh i slabo-spekayushchikhsya ugley v shikhtakh vostochnykh zavodov)

PERIODICAL: Koks i Khimiya, 1958, Nr 3, pp 3 - 5 (USSR).

ABSTRACT: The possibility of increasing the proportion of gas and weakly-caking coals in blends used on the Eastern Coke Oven Works and the choice of correct blends which are able to accommodate 40-60% of the above coals were investigated. Blends containing gas coals were prepared by a preferential grinding on a pilot plant, VUKhIN. The composition of experimental blends is given in Tables 1 and 3, from which it can be seen that gas coals were replacing fat and well-caking coals. The method of preferential grinding is described in some detail. Coking was done on a semi-industrial plant; the results obtained are given in Tables 2 and 4. Conclusions: preferential grinding of blends containing 40-60% of gas coals considerably improves the strength of coke (by 12-28 kg) providing that the blends possess sufficient increase in coke strength by preferential grinding, the latter card1/2 cannot secure the production of coke similar in strength to

Utilisation of Gas and Weakly-caking Coals in Blends of the Eastern Works

that of current production. Further increase in the coke strength can be obtained by applying preferential grinding and stamp charging. The results obtained should be confirmed by trials under industrial conditions. There are 4 tables.

ASSOCIATION: VUKhIN

Card 2/2

SOV/24-58-6-31/35

AUTHORS: Gryaznov N.S., Lazovskiy I.M. and Fel'dbrin M.G.

(Sverdlovsk)

TITLE: Contribution to the Theory of Coke Formation in Connection

with the Selective Grinding of Coals (K teorii formirovaniya koksa v svyaze s izbiratel'nym izmel'cheniyem

ugley)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye tekhnicheskikh

Nauk, 1958, Nr 6, pp 144-148 (ÚSSR)

ABSTRACT: Laboratory and semi-production coking test results with selective grinding of coal have shown that at Eastern coke plants more gas and weakly caking coals can be used and coke quality with normal coals improved. The authors deal first with the structural (crack-free) strength of coke, tabulating (Table 1) results which show that it is reduced by selective grinding. Other results (Table 2) indicate that the viscosity of the coal mix on softening rises, the effect being obtained (Table 3) when petrographically homogeneous coals are ground. The authors discuss the increase in internal friction of the plastic

Card 1/3 mass which occurs with all coals as the coal-grain surfaces are opened up. The decrease in charge bulk

Control of the contro

80V/24- 58-6-31/35 Contribution to the Theory of Coke Formation in Connection with the Selective Grinding of Coals

density produced by selective grinding leads to higher porosity and this, together with the poorer caking, accounts for the deleterious effect of such grinding on structural strength. The authors consider next the lump strength of coke, showing (Table 1) that this increases with selective grinding. They attribute this to the greater petrographic and size uniformity and consequent reduction of internal stresses. Finally the authors summarize the effects of selective grinding for various types of charge: coke stability is improved when a low-stability coke is otherwise obtained from strongly caking coals; with charges containing a high proportion of gas coals a strong coke is not obtained; a relatively small improvement in coke strength is obtained with charges Card 2/3 which normally give a medium-shatter, structurally strong

Contribution to the Theory of Coke Formation in Connection with the Selective Grinding of Coals

coke; strong coke is not obtained with low-caking charges normally giving a highly abrading coke. For preventing reduction of structural strength due to selective grinding the authors recommend tamping of the charge and quote some test results.

There are 5 tables and 6 references (5 Soviet, 1 French)

SUBMITTED: July 16, 1957

Card 3/3

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128200

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SOV/68-58-9-2/21

AUTHORS

Lazovskiy, I.M., Bogoyavlenskiy, V.V., and Fel'dbrin, M.G.

TITLE:

Averaging Coals and the Choice of the Type of Coal Stockyard for Modern Coking Works (Usredneniye ugley i vybor tipa ugol'nogo sklada dlya sovremennogo koksokhimicheskogo zavoda)

PERIODICAL: Koks i Khimiya, 1958, Nr 9, pp 6-9 (USSR)

ABSTRACT: During the All-Union Conference of the Workers of the Coking industry the following permissible deviations (from mean) for coke quality were established: drum tests ± 4kg, sulphur ± 0.05, ash ± 0.3%. These limits of variation impose the following limits for variation in the proximate analysis of coal blends: ash ± 0.3%, sulphur ± 0.05%, volatile matter ± 0.7%. To obtain the above degree of stability in the properties of coal blends, averaging of coals on stockyards and blending plants is necessary. Using methods of statistical analysis the authors discuss the necessary blending facilities for various examples of coking works supplied with a different number of coal

types with a given variability in properties of coal from Card 1/2 the individual deliveries. It is concluded that for

Averaging Coals and the Choice of the Type of Coal Stockyard for Modern Coking Works

works supplied from nearby coal mines with a uniform in quality coal (ash ± 0.6, volatiles ± 2.0) the construction of bunker installations serving simultaneously for averaging and blending coals is recommended. For works situated far from the supplying base and obtaining coals from a large number of mines the construction of a stock yard for averaging coals as distinct from the blending plant is considered necessary.

There is 1 table, and 4 references (3 Soviet and 1 English)

ASSOCIATION: VUKLIN

Card 2/2

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SOV/68-58-2-5,'20

AUTHORS: Gryaznov, N.S., Fel'dbrin, M.G. and Kuzovkov, S.S.

TITIE: Coking of Preliminary Pre-heated Coal Blend (Koksovaniye predvaritel'no nagretoy ugol'noy shikhty)

PERIODICAL: Koks i Khimiya, 1959, Nr 2, pp 17 - 20 (USSR)

ABSTRACT: The influence of a preliminary pre-heating of the coal charge on the characteristic features of the coking process and the quality of coke produced was investigated. A blend from Kuznets coals, used on the Chelyabinsk

gated. A blend from Kuznets coals, used on the Chelyabinsk Metallurgical Works, in which a part of the fat coal replaced by gas coal of the following composition was used for the investigation, %: KZh - 41, Zhl - 17, Gl - 11, K2 - 31. The blend was crushed in the usual manner to 93% of - 3 mm fraction. Pre-heating was done in a rotating drum placed in a ring furnace. The coking was done in an electrically heated oven, 400 mm wide of a capacity of 180 kg. The temperature of the surface of over walls at the end of coking was 1 030 °C and at the tar line plane 950 °C. The hot blend was charged directly from the pre-heating drum. Changes in the bulk density and rate of flow (from a special bunker with an outlet 40 mm in

diameter) of pre-heated blend were determined (Table 1) - both attained maximum value at a pre-heating temperature

Coking of Preliminary Re-heated Coal Blend

of 200 °C. Pre-heating of the blend to a temperature above 200 °C is unprofitable as the bulk density and the rate of flow decrease due to the beginning of thermal decomposition. Changes in the volatile content, thickness of the plastic layer and apparent viscosity with preheating temperature are given in Table 2 and Figure 1. decrease in the fluidity of the plastic mass begins after pre-heating to 204 °C. The temperature gradient during coking was measured with 4 thermocouples placed in one half of the oven. With increasing pre-heating temperature the mean coking velocity increases but the individual layers of the charge carbonise at a rate sharply different from the mean rate. Changes in the heating rate of ordinary and pre-heated charges during the plasticity period at various distances from the wall are given in Table 3 and changes in the thickness of the plastic layer during its movement towards the tar line plane in Figure 2. The quality of the coke produced from ordinary blend and pre-heated to various temperatures is compared in Table 4. On pre-heating of charge up to 200 C, the Card2/3 quality of the coke improves, but with pre-heating to a

Coking of Preliminary Pre-heated Coal Blend

SOV/68-58-2-5/20

higher temperature the quality of the coke deteriorates. It is concluded that pre-heating of the coal charge improves the quality of metallurgical coke and increases the throughput of the coke ovens by approximately 35%. Pre-heating of the coal charge within a range up to 200 °C is advantageous. There are 2 figures, 4 tables and 7 Soviet references.

ASSOCIATION:

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Card 3/3

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128200

sov/68-59-6-2/25

Lazovskiy, I.M., Gryaznov, N.S., Fel'dbrin, M.G. (VUKhIN), Pakhalok, I.F., Poputnikov, F.A., Yurenkov, N.I. and Lyamin, I.N. (VNIIUglebog shcheniye) AUTHORS:

Preparation of Coal Blend by Air Ellutriation with TITLE:

Crushing of Large and Heavy Particles (Podgotovka ugol'nykh shikht vozdushnoy separatsiyey s drobleniyem

krupnykh i tyazhelykh chastits)

PERIODICAL: Koks i Khimiya, 1959, Nr 6, pp 5-8 (USSR)

ABSTRACT: The use of air ellutriation in the preparation of coal

blends by preferential crushing is proposed. The method consists in that a coal or a coal blend of a size 25-0 mm is air ellutriated in a pipe, so that 3.0 mm size fraction is removed by the air stream and the 25-3 mm A pilot fraction is crushed and again air ellutriated. plant installation erected for this purpose (fig) and some experimental results obtained are described. blends used on one of the Eastern coking works were used for experiments. Size distributions of coal blends and quality of coke obtained by the usual crushing and preferential crushing with and without air ellutriation

Card 1/2 are shown in Tables 1 and 2. It was found that the use of air ellutriation decreases the proportion of dust

SOV/68-59-6-2/25 Preparation of Coal Blend by Air Ellutriation with Crushing of Large and Heavy Particles

(0.42 - 0 mm) by 5.8% and the distribution of ash between the individual size fraction is more uniform (ash content of larger particles is somewhat lower than that of fine fractions) and the coke obtained (on a pilot plant) was stronger than from blends prepared by preferential crushing without air ellutriation. design and construction of a large scale experimental plant for preferential crushing with air ellutriation in a closed cycle is recommended.

Card 2/2 There are 1 figure, 2 tables and 5 Soviet references.

GRYAZNOV, N.S.; LAZOVSKIY, I.M.; FEL'DBRIN, M.G.

Increasing the use of gas coal in coking oven charges in eastern plants. Ugol' 34 no.4:60-62 Ap '59. (MIRA 12:7)

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FEL DERIN, M.O.

Instrument for the measurement, automatic signaling and regulation of the temperature of the upper portion of the cupola of coke evens.

Koks i khim. no.8:61 '60. (MIRA 13:8)

(Poland--Coke evens)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128200

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GRYAZNOV, N.S.; LAZOVSKIY, I.M.; FFL'DBRIN, M.G.; KORENSKIY, V.I.

Preparing coal for coking by the method of pneumatic and mechanical separation. Koks i khim. no.8:4-6 '61. (MIRA 15:1)

1. Vostochnyy uglekhimicheskiy institut. (Coal) (Coke)

GRYAZNOV, N.S.; IAZOVSKIY, I.M.; FEL'DBRIN, M.G.; KAUFMAN, A.A.; KOMAROVSKAYA, G.M.; IATSKAYA, M.P.; IVANOVA, L.V.

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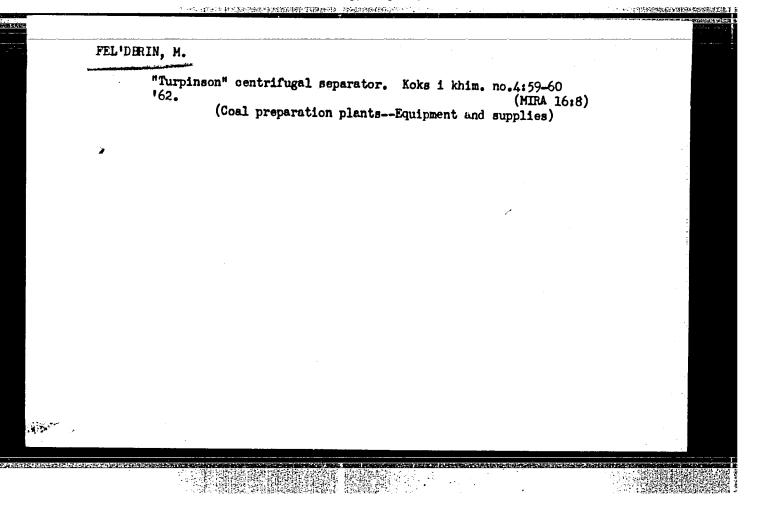
(Coal preparation) (Coke)

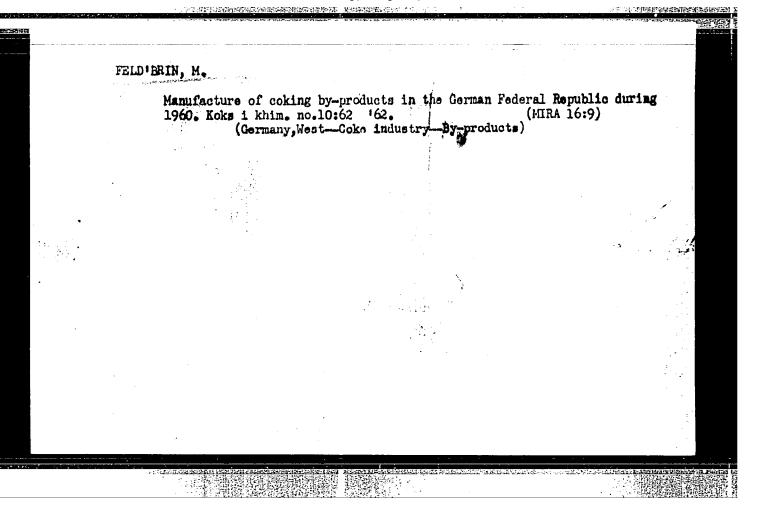
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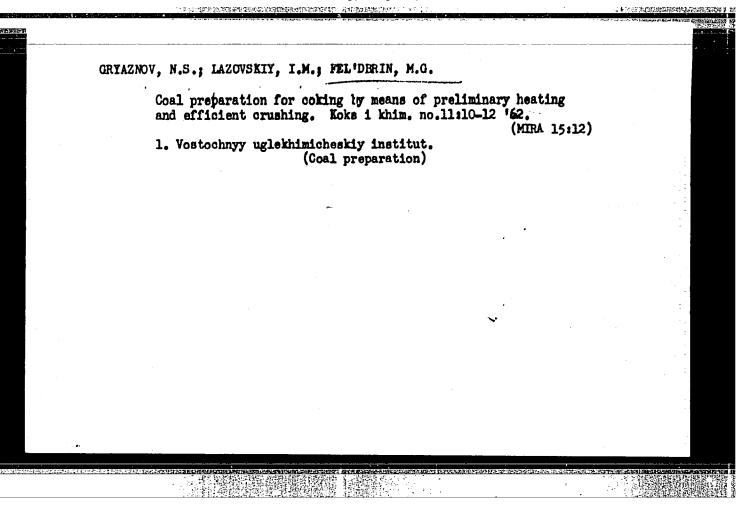
CRYAZNOV, N.S.; LAZOVSKIY, I.M.; FEL'DERIN, M.G.; IVANOVA, L.V.; KOMAROVSKAYA, G.M.

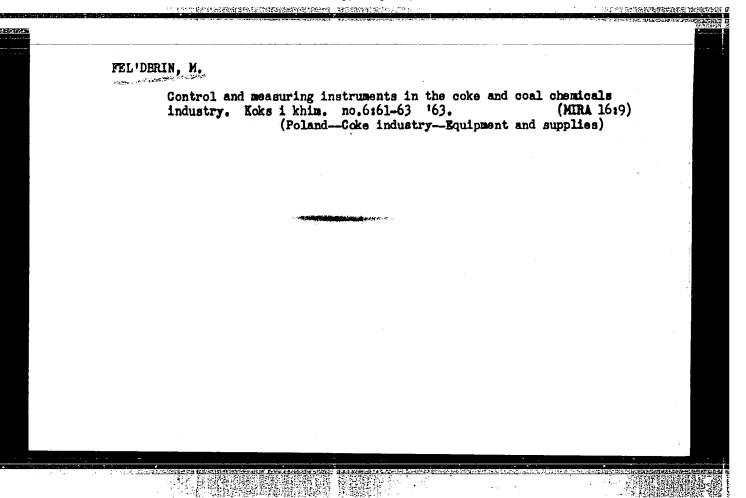
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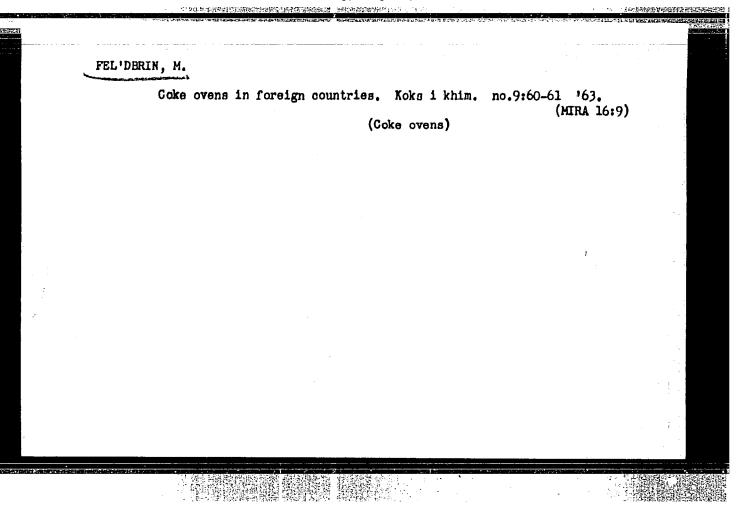




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TSIPEROVICH, M.V., doktor tekhn.nauk; LAZOVSKIY, I.M., kand.tekhn.nauk;
FEL'DERIN, M.G., kand.tekhn.nauk

Review of A.A.Agroskin and A.K.Shelkov's book "Expansion of the resources of coking coals." Koks i khim. no.9:63-64 '63.

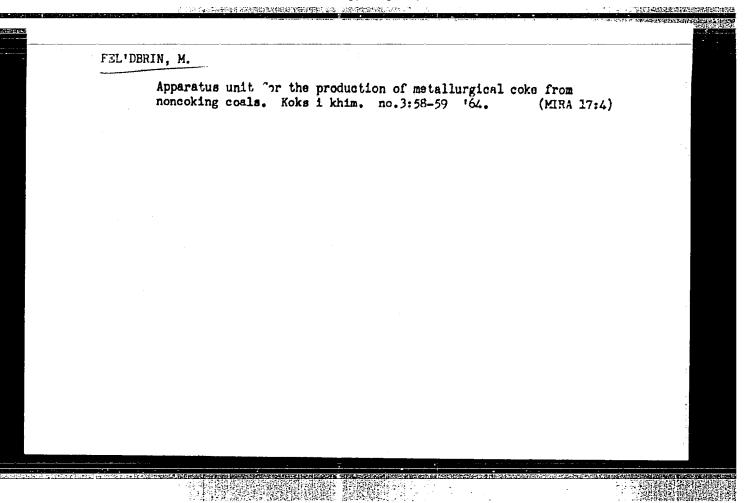
(MIRA 16:9)

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MIROSINICHENKO, A.M., kand. tekhn. nauk; PANCHENKO, S.I., doktor tekhn. nauk; SHTROMBERG, B.I., kand. tekhn. nauk; FRISHEERG, V.D., kand. tekhn. nauk; BAYDALINOV, P.A., inzh.; GRYAZNOV, N.S., doktor tekhn. nauk; ZASHKVARA, V.G., doktor tekhn. nauk; LAZOVSKIY, I.M., kand. tekhn. nauk; MARINICHEV, B.T., inzh.; FEL!DBRIN, M.G., kand. tekhn. nauk; BAKUN, N.A., inzh.; BARATS, B.M., inzh.; VOZNYY, G.F., kand. tekhn. nauk; MIKHAL'CHUK, A.M., inzh.; TOPORKOV, V.Ya., kand. tekhn. nauk; FLORINSKIY, N.V., inzh.; KHAYET, A.N., inzh.; SHELKOV, A.K., inzh., red.; ARONOV, S.G., doktor tekhn.nauk, red.; PREOBRAZHENSKIY, P.I., inzh., red.

[Manual for coke chemists in six volumes] Spravochnik koksokhimika v shesti tomakh. Moskva, Izd-vo "Metallurgiia." Vol.1.
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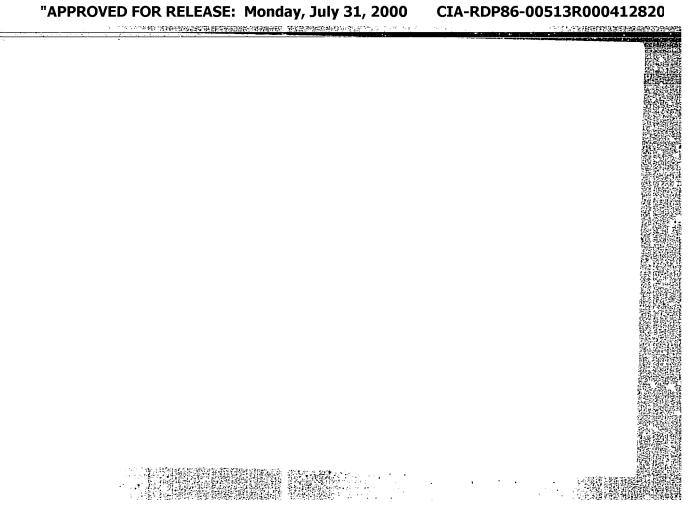


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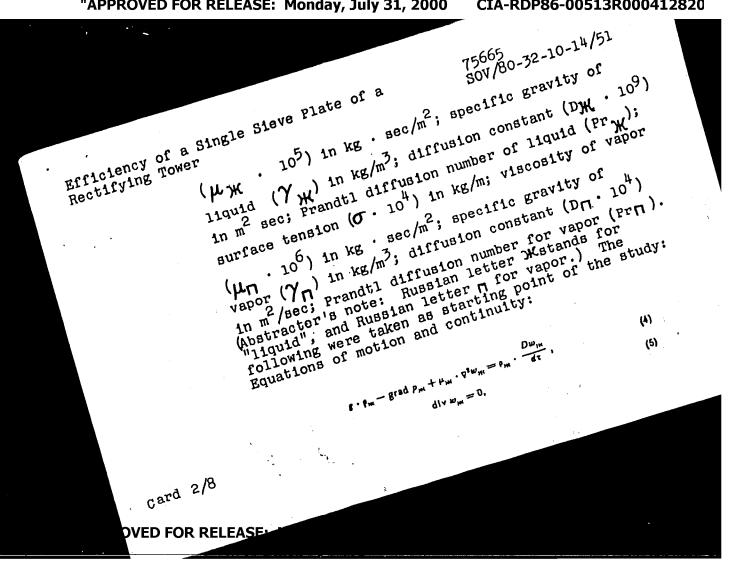
method of investigation of motor digestive reflexes in small animals)

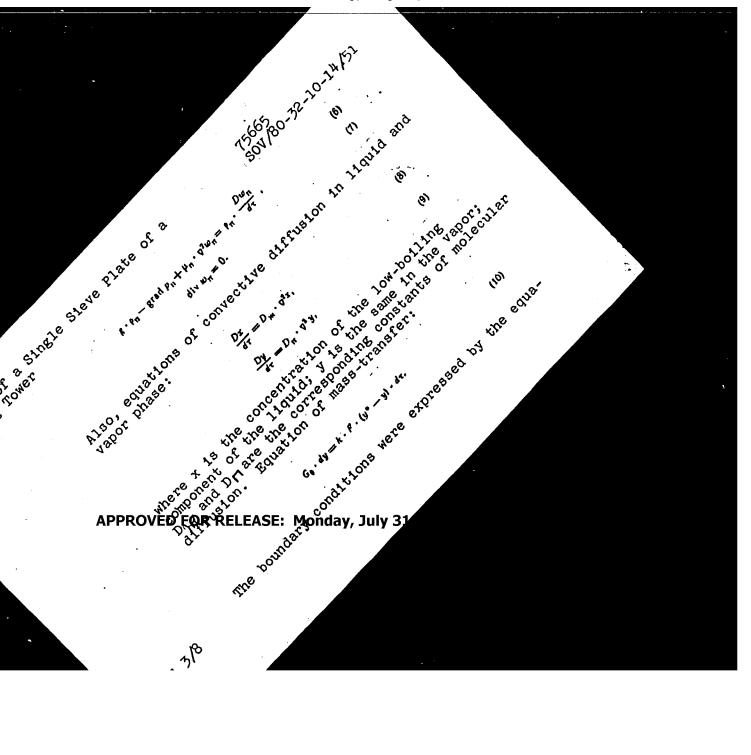
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So.: Knizhnaya Letopis', No. 2, 1956.

CIA-RDP86-00513R000412820 "APPROVED FOR RELEASE: Monday, July 31, 2000 CONTRACTOR OF THE PROPERTY OF 75665 50V/80-32-10-14/51 Efficiency of a Single Sieve Plate of a Rectifying Tower NOBKOV, A. A., Burova, G. V., Felideshr.P. Zhurnal prikladnov khimii, 1959, Vol 32, Nr 10, pp 2211-2218 (USSR) with tolugues, as were electrology with to leave en the state enter of 5.1160 AUTHORS: Tower TITLE: PERIODICAL: ABSTRACT: VED FOR RELEASE: Monday, July 31





Efficiency of a Single Sieve Plate of Rectifying Tower

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tions:

$$w_{m, p} = w_{n, p}$$
 (11)

$$\mu_{\rm m}$$
 grad $\omega_{\rm m} = \mu_{\rm m}$ grad $\omega_{\rm m}$ (12)

$$p_{\overline{n}} = p_{\overline{n}} + \sigma \left(\frac{1}{R_1} + \frac{1}{R_2} \right). \tag{13}$$

where wm, p and wn, p are, respectively, the boundary velocities of liquid and vapor. Similitude criteria can be derived from Eq. 4-13 in the usual manner. Disregarding the horizontal component of the liquid's velocity on the plate, it can be assumed that the velocity of the liquid in foam regime is fully determined by the vapor velocity in the column. Instead of wm and wn the criterion shall contain only the vapor velocity designated hereafter as w. Eq.4 and 6 give the criteria:

$$Re_{in} = \frac{w \cdot h \cdot \gamma_{in}}{\mu_{in} \cdot g}$$
, $Re_{in} = \frac{w \cdot h \cdot \gamma_{in}}{\mu_{in} \cdot g}$, $Fr = \frac{w^2}{g \cdot h}$,

Card 4/8

and equations 8, 9, 10, 12 and 13 give criteria:

75665 SOV/80-32-10-14/51 Efficiency of a Single Sieve Plate of a $Pe_{\mu} = \frac{w \cdot h}{D_{\mu}}$, $Pe_{\pi} = \frac{w \cdot h}{D_{\pi}}$, $M = \frac{k \cdot F \cdot \tau}{C_0}$, $S_{\mu} = \frac{\mu_{\mu}}{\mu_{\Pi}}$, $K_{\Pi - \mu} = \frac{\Delta p_{\Pi - \mu} \cdot h}{\sigma}$ Rectifying Tower The above give the criterial relationship: (14) M = f(Pr, Rem, Ren, Pen, Pen, Su, Kn-m), which can be easily transformed into (15) $M = \phi(Fr, Ga_{m}, Pr_{m}, Pr_{\pi}, S_{\gamma}, S_{\mu_{1}} K_{\pi-m}),$ $Ga_{m} = \frac{h^{3} \cdot T_{m}^{2}}{\frac{1}{\mu_{m}^{3} \cdot g}}, \quad Pr_{m} = \frac{\mu_{m}}{D_{m} \cdot \rho_{m}}, \quad Pr_{\pi} = \frac{\mu_{\pi}}{D_{\pi} \cdot \rho_{\pi}}, \quad S_{\uparrow} = \frac{I_{m}}{T_{\pi}}.$ where The geometric parameters of the sieve plates with overflow pipes are: the diameter, D; the hole diameter, d; the spacing of the holes, t; the height of the overflow over the plate's surface, h. These variables give three geometric relationships: $\Gamma_{i} = \overline{\Gamma}, \quad \Gamma_{i} = \frac{d}{\overline{\Gamma}}, \quad \Gamma_{j} = \frac{1}{\overline{\Gamma}},$ card 5/8

75665 sov/80-32-10-14/51 which should be included together with Eq. 15. It should be included together with Eq. 15. It and Gautreaux-O'Connells follows from Murphree's equation and Gautreaux-O'Connells follows from Murphree's equation (Chem. Eng. Progr., 1955, Nr 5, p 233) that equation (Chem. Eng. Progr., 1955, Nr 5, p 233) Efficiency of a Single Sieve Plate of a Rectifying Tower The efficiency 7 of the plate, taking into account its geometric parameters, can be expressed in the form $\eta = C \cdot F_{l}^{a} \cdot Ga_{lR}^{b} \cdot Pr_{Rl}^{a} \cdot Pr_{Rl}^{d} \cdot S_{\gamma}^{a} \cdot S_{\gamma}^{l} \cdot K_{R-lR}^{a} \cdot K_{m}^{b} \cdot \Gamma_{k}^{l} \cdot \Gamma_{k}^{l} \cdot \Gamma_{k}^{l}$ Eq. 17, by neglecting the effect of the surface tension based on Eq. 15 and 16: and other factors, can be simplified to: 1= CFr - A.1 . Ga. 04 . FO.1 . X. S in Eq. 19 is the total surface of the holes, in % of the total surface of the plate. The value of X of the total surface of the plate. The total surface of the physical and chemical properties depends solely on the physical and chemical properties. (19) where card . 6/8 CIA-RDP86-00513R000412820(

APPROVED FOR RELEASE: Monday, July 31, 2000

Efficiency of a Single Sieve Plate of a Rectifying Tower

75665 SOV/80-32-10-14/51

of the liquid, and on the reflux ratio. The effect of the composition of the liquid having been determined, it was established that η is independent of some of the criterial variables in Eq. 19, such as diffusion constant in liquid and vapor, vapor density and viscosity, and others. After further correlation of experimental data and simplification of the equation, η can be expressed by:

 $\eta = 0.33 \frac{h^{0.12} \eta_{M}^{0.06} D^{0.1} g^{0.06}}{\omega^{0.5} \mu_{M}^{0.06}}.$ (22)

where h is the height of the overflow over the plate's surface (in m.); D is the diameter of the rectifying column (in m); w is the vapor velocity referred to the full cross section of the column (in m/sec); H is the specific gravity of the liquid (in kg/m³); H is the viscosity of the liquid (in kg · sec/m²); g is the free fall acceleration (in m/sec). It is evident that η depends to a large extent on the velocity of the vapor, and only to a small extent on

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Efficiency of a Single Sieve Plate of a Rectifying Tower

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the specific weight and viscosity of the liquid; further, η is practically independent of the surface of the plate's free cross section, its diameter, and the plate's free cross section, its diameter, and the distance of the holes, and also of the gas-to-liquid ratio, mG/L. There are 3 figures; 2 tables; and 14 references, 5 U.S., 1 German, 8 Soviet. The most references, 5 U.S., 1 German, 8 Soviet. The most recent U.S. references are: Murphree, E. V., Ind. Chem. Eng., 1925, Vol 17, p 747; Lewis, W. K., ibid., Chem. Eng., 1925, Vol 17, p 747; Lewis, W. K., ibid., 1936, Vol 28, p 399; Gautreaux, M. F., O'Connell, H. E., 1936, Vol 28, p 399; Gautreaux, M. F., O'Connell, H. E., Chem. Progr., 1955, Nr 5, p 233; Robinson, C. S., Ch. Eng. Progr., 1955, Nr 5, p 233; Robinson, C. S., Gilliland, E. R., Elements of Fractional Distillation, N. Y.; Ju-Chin Chu, Petr. Pr., 1951, Nr 1, p 39, Nr 2, p 154.

SUBMITTED:

February 27, 1959

Card 8/8

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75665 SOV/80-32-10-14/51

AUTHORS:

Noskov, A. A., Burova, G. V., Fel'desh, P.

TITLE:

Efficiency of a Single Sieve Plate of a Rectifying

Tower

PERIODICAL:

Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 10, pp

2211-2218 (USSR)

ABSTRACT:

This is an attempt to generalize, by means of similitude, the data from experimental determination of the efficiency η of a single sieve plate. The tests were made in a foam regime; the amount of leakage through the plate's holes was insignificant. Mixtures of ethyl alcohol, methyl alcohol, and acetone with water, as well as mixtures of carbon tetrachloride with toluene, were distilled under atmospheric pressure at various vapor velocities of the column (from 0.3)

at various vapor velocities of the column (from 0.3 to 1.25 m/sec). The following physical and chemical

Card 1/8

constants were determined; viscosity of liquid

Efficiency of a Single Sieve Plate of a Rectifying Tower

75665 SOV/80-32-10-14/51

 $(\mu_{\mathcal{H}} \cdot 10^5)$ in kg \cdot sec/m²; specific gravity of liquid $(\gamma_{\mathcal{H}})$ in kg/m³; diffusion constant $(D_{\mathcal{H}} \cdot 10^9)$ in m² sec; Prandtl diffusion number of liquid $(Pr_{\mathcal{H}})$; surface tension $(\sigma \cdot 10^4)$ in kg/m; viscosity of vapor

(μ_Π · 10⁶) in kg · sec/m²; specific gravity of vapor (γ_Π) in kg/m³; diffusion constant (D_Π · 10⁴) in m²/sec; Prandtl diffusion number for vapor (Pr_Π). (Abstracter's note: Russian letter Жstands for "liquid", and Russian letter η for vapor.) The following were taken as starting point of the study: Equations of motion and continuity:

$$g \cdot \rho_{\rm H} - \operatorname{grad} \rho_{\rm H} + \mu_{\rm H} \cdot \nabla^2 \omega_{\rm H} = \rho_{\rm H} \cdot \frac{D \omega_{\rm H}}{d \tau}$$
, (4)

 $\vee w_{...} = 0, \tag{5}$

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Efficiency of a Single Sieve Plate of a Rectifying Tower

75665 SOV/80-32-10-14/51

 $g \cdot \rho_n - \operatorname{grad} \rho_n + \mu_n \cdot \nabla^2 \omega_n = \rho_n$

Also, equations of convective diffusion in liquid and vapor phase:

 $\frac{Dx}{dr} = D_{\mu\nu} \cdot \nabla^2 x,$

(8)

$$\frac{Dy}{d\tau} = D_{\pi} \cdot \nabla^2 y,$$

(9)

where x is the concentration of the low-boiling component of the liquid; y is the same in the vapor; Dim and Dn are the corresponding constants of molecular diffusion. Equation of mass-transfer:

 $G_0 \cdot dy = k \cdot f \cdot (y^* - y) \cdot d\tau$.

(10)

Card 3/8

The boundary conditions were expressed by the equa-

THE FECTION AND STATE

HUNGARY / Organic Chemistry. Organic Synthesis.

Abs Jour: Ref Zhur-Khimiya, No 12, 1958, 39541.

Author : Gal Feldeshi, Krasnai.

Inst : Not given.

Title : The Role of Halogen Alcoholates of Aluminum in Reduction According to Meervein-Ponndorf-Verlei. V.

The Reduction of alpha-hydroxyiminoketones.

Orig Pub: Magyar kem. folyoizat, 1957, 63, No 1, 5-11.

Abstract: The reduction of <-hydroxyiminoketones (OK) in the presence of Al(OCH(CH3)2)3 (I) was studied. The OK's which are not separated into stereoisomers ketomines with a good yield, also the HK with an

Card 1/8

HUNGARY / Organic Chemistry. Organic 30541

Abs Jour: Ref Zhur-Khimiya, No 12, 1958, 39541.

Abstract: anticonfiguration. OK's with sin-configuration are reduced with poor yields (40-50%) since simulare reduced with poor yields taneously with CO-group reduction (I) is decomposed with formation of inner complex Al-derivative (ICD). It is shown that CO-group, which takes part in the complex formation is not reduced. The yield is improved on account of a relatively delayed formation of ICD. If the reduction is carried out in the presence of a mixture of (I) and Clai (OCH (CH3))2)2 (II) or BrA1(OCH(CH3)2)2 (III), the formation of ICD is depressed and reduction of OK with sinconfiguration is possible. The obtained & hydroxy hydroxyimino compounds form with 3 moles of C6H5 NHNH2 the corresponding phenylosazones (PO).

Into the solution of 1 mole of (I) in 1200 ml of

12

G

HUNGARY / Organic Chemistry. Organic Synthesis Abs Jour: Ref Zhur-Khimiya, No 12, 1958, 39541

Abstract: added and one obtains (C6H2CO)2C=NOH (V), yield ether).

95%, M.P. 146°C. (from chloroform / pet. ether).

To the boiling mixture of a solution of 1 mole of 1 mo To the boiling mixture of a solution of 1 mole of (I) in 1 liter of benzene and 300 ml of solution A is added dropwise within 4 hours a solution with is added dropwise within 4 hours a solution with 0.66 mole of CH3COC(=NOH)CH3 in 600 ml of benzene, the contents are concentrated by evaporation, time contents are concentrated four times, each time 24 hours (~20°C) are boiled four times, 6% alcohol, for 30 minutes with a 5-fold amount of 96% alcohol, for 30 minutes with a 5-fold amount of 102°C/6mm. yield of acetoinoxime (VI) is 56%, B.P. in 800 ml yield of acetoinoxime of 124 g of (I) in a sadded, the boiling mixture of 124 g of solution A is added of abs. benzene and 200 ml of solution A is added. To the boiling mixture of 124 g of (1) in 500 ml of the boiling mixture of 124 g of (1) in 500 ml of abs. benzene and 200 ml of solution A is added, of abs. benzene and 200 ml of benzene, after 4 within 2 hours, a solution of benzene, after 4 (CH3CO) 2C=NOH (VII) in 150 ml of benzene, after 4 (CH3CO) 2C=NOH (VII) in 150 ml of benzene, after 4 (CH3CO) 2C=NOH (VII) in 150 ml of benzene, after 4 (CH3CO) 2C=NOH, yield 80%, M.P. 129°C (from ethyl CHOH) 2C=NOH, yield 80%, M.P. 129°C (from ethyl CHOH) 2C=NOH, yield 80%, M.P.

card 4/8

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HUNGARY / Organic Chemistry. Organic Synthesis

Abs Jour: Ref Zhur-Khimiya, No 12, 1958, 39541.

Abstract: abs. benzene or toluene, is introduced 1 mole of the gaseous HC1 at 10°C, an azeotrope of the solvent and (CH3)2CHOH (IV) is formed, and is distilled off, and is then made-up to 1000 ml at ~20°C, and the resulting solution contains 1 mole of (II) (Soln. A); Similarly a solution is obtained which contains (III). In CCl4 or (IV) media, (II) or (III) are prepared similarly, yield 60-80%.

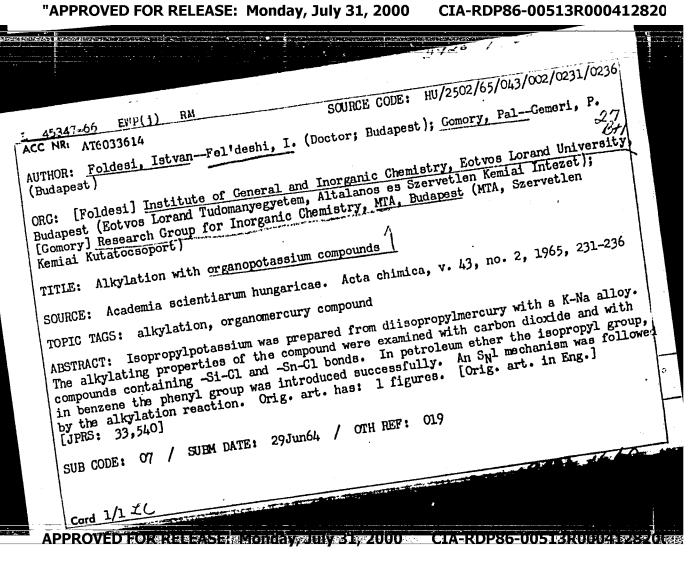
To the solution with 0.3 moles of $(C_6H_5CO)_2CH_2$ in 350 ml of acetic acid within 30 minutes is added a solution with 0.31 moles of NaNO2 in 35 ml of water at <15°C, after 2 hours 700 ml of water is

card 3/8

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R00041282 Abs Jour: Ref Zhur-Khimiya, No 12, 1958, 39541.

Abstract: acetate). In the same way by reduction of (V) was obtained (C6H5CHOH)₂C=NOH, yield 67%, M.P. 151°C (from ethyl acetate / petroleum ether); from CH3COC(=NOH). COOC₂H5 within 5.5 hours one obtains CH3CHOHC (=NOH) COOC 2H5 (VIII), yield 67.5%, b.p. 122°C./1mm. The relative measurements of the reduction rate of (VII) and its Co-complex (M.P. 160°C from water) was carried out. A mixture of 0.4 mole of (I), 500 ml of (IV), 100 ml of solution A and 0.2 mole of C6H5COCH=NOH is heated for 5 hours (50°C.), treated as above, yield of C6H5CHOHCH=NOH (IX) is 84%, M.P. 89°C (from ethyl

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AUTHOR: Babakov, A. A.; Fel'dgandler, E. G.; Kareva, Ye. N.; Savkina, L. Ya.

ORG: Central Scientific Research Institute of Ferrous Metallurgy, Moscow (Tsentral's nyy nauchno-issledovatel'skiy institut chernoy metallurgii)

TITLE: Mechanical and corrosion properties of the new two-phase Okh21N6B stainless steel

SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Sbornik trudov, no. 46, 1966. Spetsial'nyye stali i splavy (Special steels and alloys), 5-12

TOPIC TAGS: stainless steel, titanium, columbium, magnetization, mechanical property, corrosion resistance, metallographic examination / OKh2lN5 steel, OKh2lN6B steel

ABSTRACT: A study was done on the effects of columbium additions on the ferritic-austenitic structure of OKh21N5 steels, to which titanium is normally added. Two laboratory heats of OKh21N6B steel were made with Nb contents of 0.44 and 0.73%. Mechanical and magnetic properties were given as functions of quenching temperature which ranged from 1000 to 1300°C. For both alloys the fracture strength decreased monotonically with temperature while 0.2% yield strength, elongation and impact strength changed slightly. Magnetization saturation increased with rise in quench temperature due to an increase in the amount of ferrite phase, as confirmed by metallo-

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graphy. Changes in these mechanical properties and magnetic saturation were given as functions of tempering temperature after quenching from 1000°C. After tempering in the interval 450-700°C for 1, 10 and 100 hrs little change in fracture strength resulted although other properties were affected; the 0.2% yield strength increased with tempering temperature, while elongation and impact strength decreased. The magnetic saturation increased from 4000 to 11000 gauss during tempering to 700°C. All these properties were not greatly affected by the Nb content. Microstructures showed that after quenching the steel had a ferritic-austenitic structure with dispersed carbides. Independent of time, tempering to 600°C did not change this structure, however, in the range 650-700°C (10 to 100 hrs) austenite nodules formed within ferrite grains and martensite platelets formed in the austenite. The number of twists to fracture, given as a function of testing temperature, increased from 4 to 1000°C to 20 at 1250°C. OKh21N6B and OKh21N5T steels behaved similarly in corrosion tests conducted in boiling 30, 50 and 65% HNO3. However, welded samples of OKh21N6B were 3 times as stable in 65% HNO3. Welded and unwelded samples of OKh21N6B did not exhibit intercrystalline corrosion tendencies after quenching from 1000 and 1200°C. Orig. art. has: 5 figures,

SUB CODE: 11/

SUBM DATE: none/

ORIG REF: 001

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R0004128200

EWI(m)/EWP(w)/T/EMP(t)/ETI ACC NR: AT6026544 IJP(c)SOURCE CODE: UR/2776/66/000/046/0013/0019 AUTHOR: Fel'dgandler, E. G.; Kareva, Ye. N.; Savkina, L. Ya. ORG: Central Scientific Research Institute of Ferrous Metallurgy, Moscow (Tsentral' nyy nauchno-issledovatel'skiy institut chernoy metallurgii) TITLE: Some characteristic changes in the structure and properties of the two-phase steels Kh21N5T and OKh21N6M2T after tempering SOURCE: Moscow. Tsentral nyy nauchno-issledovatel skiy institut chernoy metallurgii. Sbornik trudov, no. 46, 1966. Spetsial'nyye stali i splavy (Special steels and alloys), 13-19 TOPIC TAGS: stainless steel, ferrite, austenite, temperature dependence, impact strength, saturation magnetization, microhardness, metallographic examination, phase analysis / Kh21N5T steel, OKh21N6M2T steel ABSTRACT: The solid solution stability of the two-phase Cr-Ni stainless steels Kh21N5T and OKh21N6M2T during tempering was studied. Three heats of Kh21N5T and two of OKh2lN6M2T with Cr equivalent Ni equivalent ranging from 2.86 to 3.61 were prepared. Changes in impact strength and saturation magnetization were given for water quenched samples after 30 min at either 1000 or 1250°C and after subsequent tempering in the 450-700°C range for 1, 10, 50 and 100 hrs. The greater the amount of carbon uncom-Card 1/2

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128200

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bined with $\frac{\mathcal{V}!}{\text{Ti}}$ the larger were the brittle regions shown on tempering temperature-time diagrams. Except for the lower C level of 0.04% C, both high and low temperature brittle regions were observed in samples quenched from 1000°C. For samples quenched from 1250°C and tempered in the range 450-550°C only a single low temperature brittle region occurred. Microhardnesses of the ferritic and austenitic phases in tempered samples were given as a function of tempering time. Only ferrite increased in hardness under these conditions due to a decomposition of the ferritic solid solution; the kinetics were similar to a decomposition process and the curves exhibited maxima, which indicated a coagulation of the hardening phase. The saturation magnetization given for these conditions showed two temperature regions of instability corresponding to the brittle regions mapped out by impact tests. The drop in saturation magnetization at the lower temperature range was caused by the formation of a nonmagnetic phase in ferrite, while the instability at higher temperatures was caused by the transformation of austenite into martensite. At higher tempering temperatures, the ferrite boundaries thickened and austenitic modules formed within the ferrite. The brittleness at low tempering temperatures was not a function of alloying and was characteristic of all grades of Kh21N5T and OKh21N6M2T steel. However, above 600°C, brittleness was a function of alloying; in Kh21N5T steels it was caused by carbide formation. In OKh2lN6M2T it resulted from σ-phase formation. Orig. art. has: 4 figures,

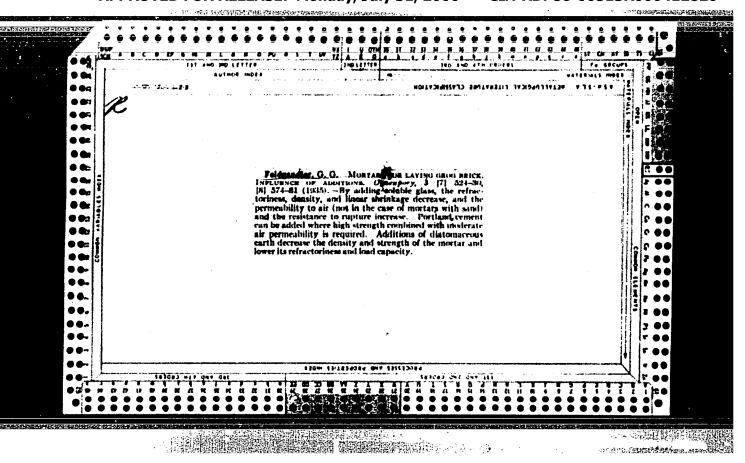
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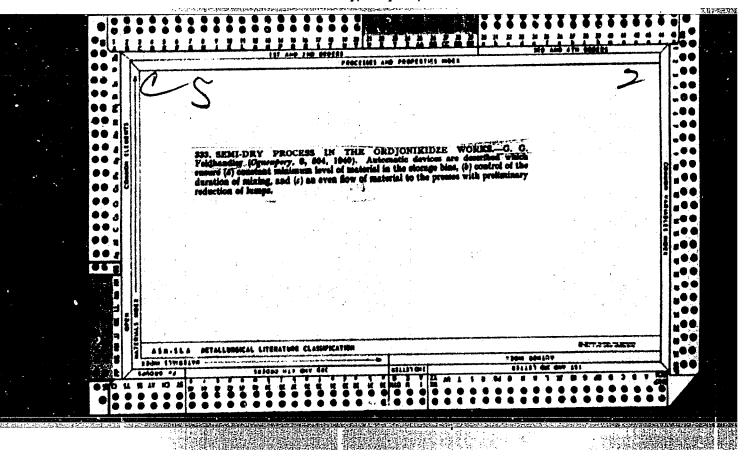
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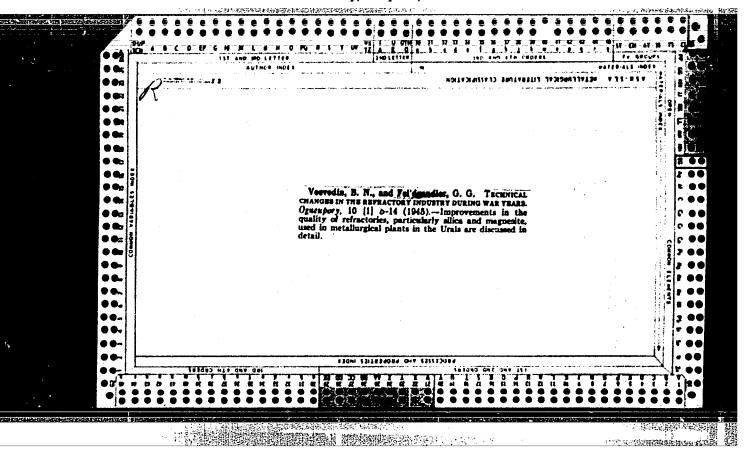
Card 2/2 Z. C.

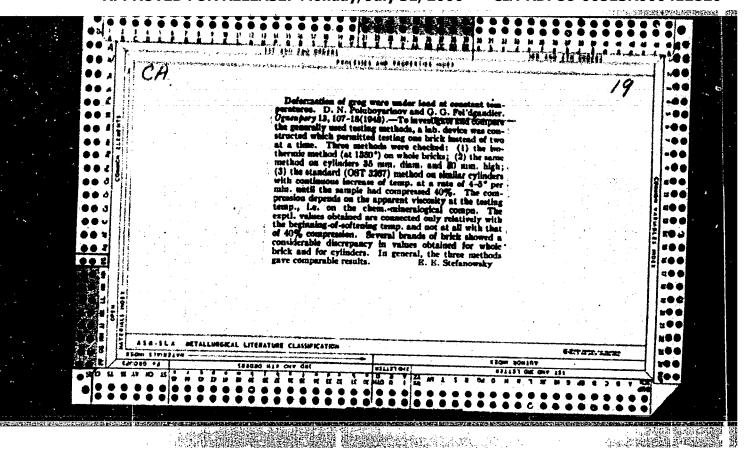
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.,	1. C4:39-67 EWT(m)/EWP(w)/T/EWP(t)/ETT LIP(c) JE UR/2776/66/000/046/0020/0029 ACC NA AT6026545 (A) SOURCE CODE: UR/2776/66/000/046/0020/0029	÷ :
	AUTHOR: Sinel'nikov, h. I.; Babakov, A. A.; Barziy, V. K.; Demchishin, A. V.; Laskaronskiy, E. N.; Lyublin, Ye. B.; Fel'dgandler, E. G.; Cherkashina, N. P.; Cherney yavskaya, S. G.	
	ORG: Central Scientific Research Institute of Ferrous Hetallurgy, Moscow (Tsentral'-nyy nauchno-issledovatel'skiy institut chernoy metallurgii)	
	TITLE: A study of the plasticity of 1Kh21N5T (EI811) steel at high temperatures	
	SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. Sbornik trudov, no. 46, 1966. Spetsial'nyye stali i splavy (Special steels and alloys), 20-29	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	TOPIC TAGS: stainless steel, heat treatment, hot ductility, metallographic examination, austenite, ferrite, temperature dependence / lKh2lN5T steel, EI811 steel	
•	ABSTRACT: Ten heats of EIS11 steel containing 4.8-5.3% Ni and 0.25-0.53% Ti were prepared in order to study the effect of temperature and ingot cementation time on phase composition. The dependence between phase ratios and metal plasticity at high temperatures was also studied. Samples were water quenched after heating at 1000, 1100, 1200, 1250 and 1300°C for 1, 2, 5 and 10 hr. Hot torsion tests were conducted at a twist rate of 60 rpm at 900, 1000, 1100, 1200, 1250 and 1300°C after a 20 min soak.	The second second
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fraction fra	then exituring, then exitence in the street increase the 1200 is became and youlted for	the sample amined met or each st teel sampl in time a -1300°C raferritic. The appears in y-phases in y-phases	es were wat allographic eel is give es. The qu it temperatu mge; by hol The plass the struc- contents he i at higher to 1310°C is	ally. The am in. Micrograp iantity of fer ime, with the iding for 10 idity at dif ture at the g iss than 25-3 temperatures natead of 125	d as a function to retain the hig count of austenit this of each treat write increased we most intense α three in this range ferent temperature iven temperature throughout rolling to 1270°C. Originally of the country of the countr	e as a function ment are shown fith rise in temp or conversion or almost all of the sess depended on the mended that the less than is normal.	of heat or repre- erature curring the struc- the ratio dity ingots of	A Charles of the Association of the Control of the
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- 1. FEL DOANDLER, G. G.
- 2. USSR (600)
- 4. Aristov, G. G.
- 7. "Molder and presser of refractory products."
 G. G. Aristov. Reviewed by G. G. Fel'dgandler.
 Ogneupory.17. No. 9. 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

CONTROL TO THE PROPERTY OF THE

ZAGZHDA, V.P.; TIKHOHOVA, L.A.; SOKOLOV, V.I.; MARAHTS, A.G.; RYBHIKOV, V.A.;

KAZAKEVICH, S.S.; SARMIN, A.P.; GAVRILOV, A.I.; NOVIKOV, A.H.;

NECHEPORENKO, M.A.; KAL'MOVA, Ye.A.; FEDOROV, G.A., redaktor;

FEL'DGAMMENTO, redaktor; ROZENTSVEYG, Ya.D., redaktor izdatel'
stva; MIKHAYLOVA, V.V., tekhnicheskiy redaktor

[Hendbook on refractory elements and materials] Spravochnik na ogneupornye izdeliia, materialy i syr'e. Sostavlen po gosuderstvennym standartam i tekhnichesim usloviiam. Moskva, Gos. nauchnotekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1956. 195 p. (MIRA 10:2)

1. Russia (192) - U.S.S.R.) Ministerstvo chernoy metallurgii.
2. Leningradskiy istitut ogneuporov. (for Zegzhda, Tikhonova, Sokolov, Marants, Rybnikov, Kasakevich, Sarmin, Gevrilov, Movikov, Mecheporenko, Kalimova.

(Refractory materials)

THE STREET AND THE STREET AND THE STREET, WHEN THE STREET, WHEN THE STREET, WHEN THE STREET, WHEN THE STREET, FEL'DGANDLER, G.G. 131-12-8/9 Short Reports (Kratkiye Boobshcheniya). Conference of the Scientification Reports (Kratkiye Boobshcheniya). Technical Council of the Institute for Refractories in Khar'koy (Sessiya nauchno-tekhnicheskogo soveta instituta ognemporov v Khar'kove) Fel'dgandler, G.G. AUTHOR: Ogneupory, 1957, Nr 12, pp. 567-568 (USSR) This conference took place on October 28/30. 1957, and was attended by TITLE: many representatives of scientific institutes and the corresponding industries. Reports were heard on various problems connected with refractories, of which the following met with the greatest interest: PERIODICAL: 1.) Professor Karyakin, L.I., head of the petrographical laboratory of the Kheribor Institute for Refractories, spoke about the results ABSTRACT: obtained by research work connected with kaolins and clays of the Ukraine. 2.) I.G. Orlova, Candidate of Technical Sciences, gave a report on the research work carried out concerning sintering and swelling up of refractory clays and kaoling when heated. 3.) T.S. Ignatova, soientific collaborator of long standing of the Ural department of the Leningrad Treat that for Representation delivered a manual on the SCIENTIFIC COLLEGERATOR OF LONG STANDING OF WHO WELL GEPAR MICH. OF THE RESTRICTION OF AN ARCHITECTURE OF THE COLLEGERATOR OF AN ARCHITECTURE OF ARCHITECTURE O obtained by laboratory work as well as by the industrial testing of the retional utilization of management leading forms in the venture. the rational utilization of primary kaclin found in the Kyshtyn deposits and of the semisoid olays discovered in the Ural deposits. Card 1/2

131-12-8/9 Short Reports. Conference of the Scientific-Technical Council of the Institute for Refractories in Khar'koy

of the Geological Laboratory for Raw Mate-4.) A.P. Sarmin, head rials of the Leningrad Institute for Refractories, spoke about the geological and technological characteristic of the kaolin-hydrar gillite raw material found in the Arkalyk deposits in the Kazakh SSR. 5.) Professor G.V. Kukolev and his collaborator (Khar'kov Institute for Refractories), investigated the influence exercised by additions upon the sintering of kaclins. 6.) 0.M. Margulis, the scientific collaborator of the Khar'kow Institute for Refractories, gave a report on the technology of the production of the testing of unburnt kaolin products in practice, the durability of which in furnaces is often greater than that of burnt ones. Finally, quite an amount of work was mentioned which ought to be carried out.

ASSOCIATION: Ferrous-metallumgical Department of the State Planning Committee of the

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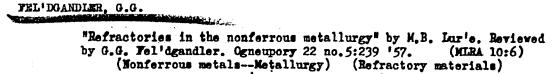
RSFSR (Otdel chernoy metallurgii Gosplana RSFSR)

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Card 2/2

1、10年代建筑等原则允许世界部的研究组织等等。14年的超级原来(1)。2



(Fel'dgandler, G.G.)

MARANTS, A.G.; ZEGZHD, V.P.; TIKHONOVA, L.A.; SOKOLOV, V.I.; RYENIKOV, V.A. [deceased]; DEREVYANCHENKO, L.D.; KARKLIT, A.K.; AKSEL'RAD, E.A.; SARMIN, A.P.; FEL'DGANDLER, G.G., red.; MAKSIMOV, Ye.I., red. izd-va KARASEV, A.E., tekhm. red. ,

[Handbook of refractory materials, products, and raw materials; compiled according to state standards and technical specifications]

Spravochnik na ogneupornye izdeliia, materialy i syr'e. Sostavlen po gosudarstvennym standartam i tekhnicheskim usloviiam. Izd.2., ispr. i dop. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1961. 338 p. (MIRA 14:9)

1. Sotrudniki Vsesoyuznogo instituta ogneuporov (for all except F@l'dgandler, Maksimov, Karasev).

(Refrectory materials—Standards)

FELIDGANDLER, G.G.

Use and prospects of introducing refractory concrete and ramming materials in ferrous metallurgy. Ogneupory 28 no. (MIRA 1619) 7:295-300 163.

1. Gosudarstvennaya inspektsiya po sluzhbe i kachestvu ogueuporov.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128200

FEL! DOENDLER M. Va. (Odessa)

Primary pulmonary sarcoma. Vrach.delo no.11:1209 N '56. (MIRA 10:3)

1. Khirurgicheskoye otdeleniye (zaveduyushchiy - M.Ya.Fel'dgendler) bol'nitsy zavoda im. Yanvarskogo vosstaniya. (LUNGS--CAMCER)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128200

ACC NR. AP5027228

SOURCE CODE: UR/0020/65/164/006/1286/1287

AUTHOR: Filonenko, N. Ye.; Ivanov, V. I.; Fel'dgun, L. I.

ORG: All Union Scientific-Research Institute of Abrasives and Polishing (Vsesoyumyy nauchno-issledovatel'skiy institut abrazivov i shlifovaniya)

TITLE: Morphology of cubic boron nitride crystals

SOURCE: AN SSSR. Doklady, v. 164, no. 6, 1965, 1286-1287

TOPIC TAGS: boron compound, cubic crystal, crystal structure, boron nitride compound, x ray diffraction analysis, crystal symmetry, twinning

ABSTRACT: R. H. Wentorf (J. Chem. Phys., 34, 1, 1961) reported that the cubic boron nitride/which he synthesized and which had the hardness of diamond was crystallized in the form of tetrahedrons and octahedrons. Later, F. P. Bundy and R. H. Wentorf (J. Chem. Phys., 38, 5, 1963) showed, on the basis of X-ray diffraction studies, that cubic boron nitride had the structure of sphalerite. This discrepancy promoted the

recent study. The crystals, sufficiently large (0.3-0.6 mm) for crystallographic studies, were grown during work on the synthesis of nitride. The subsequent measuring of >100 crystals proved that cubic boron nitride has a hexatetrahedral type of symmetry (FL3m). The combination of positive [111] and negative [111] tetrahedrons is the main crystallographic form of its crystals. The most predominant were octahedral-shaped crystals with characteristic apexes in the form of a double sloping roof formed by the

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UDC: 548.54

ACC NR: AP5027228

combination of two faces of hexagonal and two faces of triangular form and belonging to the positive and negative tetrahedrons, respectively. The polysynthetic and simple twins were detected in polished thin sections. They consisted of plate-like aggregates intergrown at various angles. The thickness of individuals forming polysynthetic twins varied from a fraction of a to several hundred \(\alpha \). As a rule, the polysynthetic twins contained numerous inclusions captured during crystallization. The microhardness of cubic boron nitride varied within the range of 7300 - 10,000 kg/mm², with 8500-8600 kg/mm² being the most common. A study in reflected light under a metallographic microscope detected on the surface of tetrahedral faces the vicinal faces and vicinaloids, the layers and spirals of growth, the steps from several layers of growth, the inclusions of small crystals and twins of cubic boron nitride, and the inclusions of impurities. The paper was presented by Academician N. V. Belov 17 Aug 65. The authors has: 4 fig.

SUB CODE: 20,07/SUBM DATE: 15Jul65/ OTH REF: 002

Card 2/2 9

